

ABSTRACT OF THE DISCLOSURE

A main CPU determines whether or not there is a request for one valve driving based on an engine operating state such as an engine speed and a load factor, with
5 reference to a control map. When it is determined that there is a request for one valve driving, it is determined whether or not there is an overlapping period between opening periods. When it is determined that there is no overlapping period, a high speed control is performed for controlling electromagnetically driven valves. When it is determined that there is no request for one valve driving, or when it is determined that there is the
10 overlapping period, a low speed control is performed for controlling electromagnetically driven valves.